

CITY OF FAIRFIELD

RESOLUTION NO. 2015 - 248

**RESOLUTION OF THE CITY COUNCIL APPROVING AMENDMENT NO. 11 TO THE
ENGINEERING SERVICES AGREEMENT BETWEEN THE CITY OF FAIRFIELD AND
CREEGAN + D'ANGELO FOR THE EAST-WEST WATER TRANSMISSION PIPELINE
PROJECT**

WHEREAS, the East-West Water Transmission Pipeline Project was developed to address service and supply issues; and

WHEREAS, Amendment No. 11 will provide additional engineering services to cover scope of work changes.

NOW, THEREFORE, THE COUNCIL OF THE CITY OF FAIRFIELD HEREBY RESOLVES:

Section 1. The Mayor is hereby authorized and directed to execute on behalf of the City of Fairfield Amendment No. 11 to the Agreement between the City of Fairfield and Creegan + D'Angelo for the East-West Water Transmission Pipeline Project.

Section 2. Amendment No. 11 will increase the maximum fee by \$435,000 for a total not to exceed fee of \$4,638,000 from the Water Enterprise Fund.

Section 3. The City Manager is hereby authorized to implement the above-mentioned amendment.

PASSED AND ADOPTED this 17th day of November 2015, by the following vote:

AYES: COUNCILMEMBERS: Price/Timm/Bertani/Moy/Vaccaro

NOES: COUNCILMEMBERS: NONE

ABSENT: COUNCILMEMBERS: Vaccaro

ABSTAIN: COUNCILMEMBERS: NONE


MAYOR

ATTEST:


CITY CLERK

pw



October 6, 2015

600029.10 / 1852 Revision 1

Mr. Felix Riesenber
City of Fairfield Department of Public Works
1000 Webster Street
Fairfield, CA 94533

Re: Increased Scope of Services for the East-West Water Transmission Line Pipeline Project Design Amendment No. 11 to P.O. 13161

Dear Mr. Riesenber:

Pursuant to our recent discussions, we are providing this proposed amendment for a fee increase due to increased scope of work and future changes we foresee requiring additional services to prepare the remaining construction documents, obtain necessary permitting, bidding support and construction administration assistance for the 36-inch Potable Water Line (Easterly Portion). Our last design and construction services amendment was approved in April 2013 for P.O. 13161. In general, the necessary changes in our scope of services result from:

- Segment 3 alignment was shortened and plans modified during the bidding phase to allow for Segment 4 alternative alignment analysis. Modifications included adding a cathodic protection rectifier and deep well anode station. Modifications included replacement of existing deep well anode station at Cement Hill and Manual Campus.
- Segment 4 alternative analysis and realignment, Kinder Morgan fuel line coordination and potholing. A portion of Segment 3 was added to the Segment 4 drawings to allow for earlier construction of Segment 3 allowing for further study on alternative alignment options. Modifications to plans and specifications based on updated City standards and specifications.
- Segment 5C delays on right-of-way acquisition coordination and on going coordination with City of Suisun City, 30" storm drain modifications, Army Corp permitting requirements due to wetlands, Kinder Morgan fuel line coordination. Modifications to plans and specifications based on updated City of Fairfield Standards and Specifications. As requested by PG&E stake locations of the proposed 36" water line and 30" storm drain line at PG&E 4" gas line crossing for PG&E use in lowering their pipe line to miss proposed pipelines.
- Reassignment of Segment 6A from Lewis Operating Group to the City of Fairfield moving forward as a City lead project. Prepare 95%, 100%, Bid Set PSE and Construction Administration Services.
- Modification of the Cement Hill Bypass Motor Operated Valve (MOV 1) electrical service and SCADA control systems and modifications to Cement Hill Bypass Pipeline plans and specifications based on updated City of Fairfield Standards and Specifications. Prepare revised 95%, 100%, Bid Set PSE and Construction Administration Assistance.



We are hereby respectfully requesting that our estimated fee be increased by **\$435,000** to allow for our additional design, permitting and construction administration assistance services that are needed to complete the various remaining construction documents, bid the projects and complete construction that were not previously included in our scope of services.

The Easterly Portion of the 36" waterline (starting at Hale Ranch Road and extending to Cement Hill Road is currently identified as Segments 1, 2, 3, 4, 5A, 5B, 5C, 5D, 6A, 6B, and Cement Hill Bypass, as shown on attached Fairfield Water Line Exhibit, Sheet 1) and includes the eleven segments herein mentioned with an approximate length of 7.5 miles. To update the current status of our level of completion of the design plans, specifications and estimate documents (PSE) of the various remaining Easterly water line projects below is a summary listing by water line segments that includes documents that we have already prepared or which are still in process:

- Easterly Segment 1, 36-inch Water Line, Construction and Record drawings are complete.
- Easterly Segment 2, 36-inch Water Line, Construction and Record drawings are complete.
- Easterly Segment 3, 36-inch Water Line, Construction is complete and record drawings are in process.
- Easterly Segment 4, 36-inch Water Line, PSE at 95% submittal level in for review at City of Fairfield. Application made to UPRR for undercrossing. Coordination with Kinder Morgan pipeline on going.
- Easterly Segment 5A, 36-inch Water Line, Construction and Record drawings are complete.
- Easterly Segment 5B, 36-inch Water Line, PSE, Construction and Record drawings are complete.
- Easterly Segment 5C, 36-inch Water Line, PSE at 100% submittal is in for final review at the City of Fairfield and City of Suisun City. Permitting is complete on proposed storm drain line connecting to DWR facilities. Roadway easements are in the process of being acquired by the City of Suisun City.
- Easterly Segment 5D, 36-inch Water Line PSE completed, Construction and Record drawings are complete.
- Easterly Segment 6A, 36-inch Water Line 95% PSE were submitted by Wood Rogers Engineers to the City of Fairfield seven years ago. Peer review complete by C+D. Project construction is still on hold by Lewis Operating Group due to economic downturn. The City of Fairfield public works staff is requesting C+D prepare a separate set of bid documents to be bid by the City ahead of the Lewis Operating Group project moving forward. The horizontal and vertical alignment of the 36" transmission line will remain the same.
- Easterly Segment 6B, 36-inch Water Line, Construction and Record drawings are complete.
- Cement Hill Bypass, 36-inch Water Line, PSE at 95% submittal level.

A more detailed summary discussion of each of the water line segment tasks completed or yet to be completed is below. Additional fees are needed and herein requested to cover our additional design effort and proposed construction administration assistance (CAA). Note we have not included construction staking which we have proposed to be performed by the contractor and have included it as a bid document specification requirement. The segments included are as follows:



Segments 1 thru 4 (Westerly Portion, 30-inch Water Line from West America to Hale Ranch Rd. (approx. 13,300 ft including Segment 2):

Project construction is completed and record drawings are complete.

Segment 1 (Easterly Portion, 36-inch Water Line from Hale Ranch Rd. toward Pennsylvania Ave. – Approx. 12,600ft):

Project construction is completed and record drawings are complete.

Segment 2 (Easterly Portion, 36-inch Water Line from Pennsylvania Ave. toward Illinois St. – Approx. 3,300ft): Project construction is completed and record drawings are complete.

Segment 3 (Easterly Portion, 36-inch Water Line from Illinois St. toward Union Ave. Approx. 3,750ft): Project construction is completed and record drawings are in the process of being completed and submitted back to the City.

Additional T&M Estimated Fee = \$5K (\$0K Design, \$5K CAA, includes \$0K for Subs)

Segment 4 (Easterly Portion, 36-inch Water Line from Union St. toward Railroad Ave. Approx. 2,250ft): Completed alternative analysis and have submitted the 95% PSE to the City of Fairfield for review.

C+D will prepare an encroachment permit application to be filed with the City of Suisun City.

C+D will assist the City of Fairfield in obtaining a crossing agreement with Union Pacific Railroad allowing for the undercrossing.

C+D will coordinate the crossing of Kinder Morgan's 20" fuel line and pothole its location. C+D will add additional utility potholes to be performed by our sub-consultant Exaro to verify the horizontal and vertical locations of the Kinder Morgan fuel line. We will have our surveyor locate these additional utility potholes when they are completed and add the fuel line pothole information into the plans. At this time we estimate up to 4 additional potholes will be included.

C+D will submit an application with the OSHA Mining and Tunneling in Sacramento, CA, for the bore and jack under both the UPRR crossing and Main St. crossing.

C+D consultant, Corpro, has prepared 95% and will complete the 100% and Bid Set PSEs for the corrosion protection drawings that includes additional anode stations protecting the two steel casing crossings.

C+D will have our environmental consultant LSA prepare a wetland delineation for the alternative drainage easement alignment and prepare an amendment to the Initial Study Mitigated Negative Declaration that they previously prepared for the other road alignment and apply for permits through USCOE, RWQCB and CA Fish and Wildlife if applicable to the selected alignment.

C+D is to complete the 100% and Bid Set PSEs and provide construction administration assistance (CAA) services.

Additional T&M Estimated Fee = \$117K (\$20K Design, \$50K CAA, includes \$47K for Subs)

Segment 5A (Easterly Portion, 36-inch Water Line along a portion of Railroad Ave. toward East Tabor and Clay Bank Road. Approx. 1,100ft):

Project construction and record drawings are complete.

Segment 5B (Easterly Portion, 36-inch Water Line along Sunset Avenue between Old and New Railroad Ave. Approx. 1,400ft):

Project construction and record drawings are complete.

Segment 5C (Easterly Portion, 36-inch Water Line along a portion of Railroad Ave. toward Humphrey Blvd. Approx. 3,900ft):

100% PSE have been submitted to the City of Fairfield for review. A portion of Segment 5C will cross under the Laurel Creek Bypass. C+D has completed efforts for permitting the bore and jack work under the Laurel Creek Bypass and the new storm drain connection with DWR Flood Control Section.

As requested by the City of Suisun City, C+D, has revised the PSEs to resolve the drainage problem that exists on Railroad Avenue. C+D has included in the construction documents design of a new 30" storm drain running down Railroad Avenue to pick up a City of Fairfield bubble up inlet that currently drains to a flat road side ditch along a Railroad Avenue. The storm drain design has been approved including Kinder Morgan, DWR, Fish and Wildlife, USCOE and Regional Water Quality Control Board.

C+D has prepared preliminary exhibits for proposed easements for properties that front Railroad Avenue between Blossom Avenue and Worley Road at the directions of City of Fairfield staff to assist City of Suisun City with negotiations with the property owners.

C+D will prepare the Bid Set PSEs and construction administration assistance (CAA) for Segment 5C. This CAA work shall include attending pre-bid meetings, review bid results, construction field meetings at City request, shop drawing/submittal review as well as record drawing preparation from Contractor and City supplied information.

C+D's surveyor will stake locations of the proposed 36" water line and 30" storm drain line at PG&E 4" gas line crossing for PG&E use in lowering their pipe line to miss proposed pipelines.

Additional T&M Estimated Fee = \$62K (\$10K Design, \$40K CAA, includes \$12K for Subs)

Segment 5D (Easterly Portion, 36-inch Water Line along a portion of New Railroad Ave. West of Marina Drive to Sunset Avenue Approx. 4,750ft):

Project construction and record drawings are complete.

Segment 6A (Easterly Portion, 36-inch Water Line along a portion of Clay Bank Road. to Cement Hill Approx. 3,400ft):

Previously this task for the construction documents and special provisions is assigned to Lewis Operating Group's civil engineer Wood Rodgers Engineers (95% level) and C+D has provided limited peer review assistance to the City review staff.

The City is now requesting C+D to create a separate set of PSEs that will be bid separately from the work that previously was going to be constructed by the developer Lewis Operating Group with their land development improvements. This separate set of PSEs will be coordinated with the proposed improvements by the developer. C+D will coordinate with Wood Rodgers in requesting release of their progress drawings and AutoCAD files to assist C+D in preparation of the PSEs and be used as basis of the design. It is assumed the progress drawings and AutoCAD files will be made available to C+D.

C+D will provide 95%, 100% and Bid Set PSEs and CAA.

Additional T&M Estimated Fee = \$135K (\$50K Design, \$40K CAA includes \$45k for subs)

Segment 6B (Easterly Portion, 36-inch Water Line along a portion of Clay Bank Road. to Quail Dr. Approx. 1,950ft):

Project construction and record drawings are complete.

Cement Hill Bypass (Easterly Portion, 36-inch Water Line along a portion of Clay Bank Road. to Approx. 1,300ft):

For Cement Hill Bypass, the current 95% construction documents and special provisions allow for the existing Manual Campos roadway to be widened in the future by the developer ultimately to be bid by the Lewis Operating Group.

The City of Fairfield has requested that the electrical service, automatic control and SCADA system for the Motor Operated Valve (MOV) be modified to reduce the number of service locations and adapt the latest technology with the automatic control and SCADA systems. C+D's consultant, A TEEM, has completed the initial effort and their design will be included in the 95% PSE.

The City staff has also asked for additional utility potholes be done to verify additional locations of existing utilities and we have include budget for Exaro to provide up to 7 additional potholes for this project. We will also have our surveyor locate these additional potholes when they are completed and add the utility information into the plans.

C+D will provide 95%, 100% and Bid Set PSEs and CAA.

Additional T&M Estimated Fee = \$116K (\$20K Design, \$45K CAA, includes \$51K for Subs)

Summary:

As previously stated, we are hereby respectfully requesting that our estimated fee be increased by **\$435,000** to allow for our remaining design and construction administration services that are needed to complete the remaining construction document packages, permitting and CAA.

This fee increase represents a total of **\$217,000** for Design related Services and **\$218,000** for CAA Services. It includes **\$130,000** for our sub-consultants: LSA, for environmental work; ATEEM for electrical and controls work; Exaro for pothole work; Corrpro for corrosion protection work; and for survey work.

This amendment will increase our existing time and materials not to exceed fee agreement from **\$4,203,000 to \$4,638,000.**



Creegan+D'Angelo

If you have any questions or wish to discuss any of the above, please call.

Sincerely,

Kenneth R. Swenson, P.E.
Sr.V.P., Engineering Manager
Principal Engineer

KRS/krs

Enclosure

**AUTHORIZATION
FOR CREEGAN + D'ANGELO:**

Kenneth R. Swenson
Kenneth R. Swenson, Sr.V.P.
Creegan + D'Angelo

10/6/15
Date

**AUTHORIZATION
FOR CITY OF FAIRFIELD:**

Harry F. Ruiz
Mayor (Signature)
City of Fairfield

11/25/15
Date

